Each

Dart Aerospace Ltd. Wednesday, 1/11/2006 4:20:52 PM Kim Johnston User: **Process Sheet** : BRACKET ASSEMBLY **Drawing Name** : CU-DAR001 Dart Helicopters Services Customer 4 Job Number : 25441A : 10278 **Estimate Number** : D3121141 : NIA **Part Number** P.O. Number : D3121 REV C2 S.O. No. : N/A **Drawing Number** : 1/11/2006 This Issue : N/A Project Number : NC Prsht Rev. : NIA : C2 : MACHINED PARTS Type **Drawing Revision** First Issue :NIA : 24267A Material Previous Run : 2/18/2006 Qty: 12 Um: **Due Date** SEE COMMENT BELOW Written By :SEE COMMENT BELOW **Checked & Approved By** : Est Rev:Pick:A 04.02.18 New issue KJ/DS Comment **Additional Product** Job Number: Description: Seq. #: **Machine Or Operation:** 17-4 SS Bar 1.0 M174B1000X02000 0.5775 f(s)/Unit 6.9300 f(s) Comment: Qty.: Total: Material: 17-4 SS Bar per AMS 5604/5643 (M17-4-B1.000x02.000) Identify for D3121-111 Batch: M14778 2.0 BAND SAW Comment: BAND SAW Cut blanks: (1.000" x 2.000") 6.600" long HAAS CNC VERTICAL MACHINING 3.0 HAAS1 Comment: HAAS CNC VERTICAL MACHINING #1 1-Machine D3121-111 as per Folio FA361 and Dwg D3121Identify as D3121-111 2-Deburr

3-Scribe batch number

4.0 QC2 INSPECT PARTS AS THEY COME OFF MACHINE



Comment: INSPECT PARTS AS THEY COME OFF MACHINE





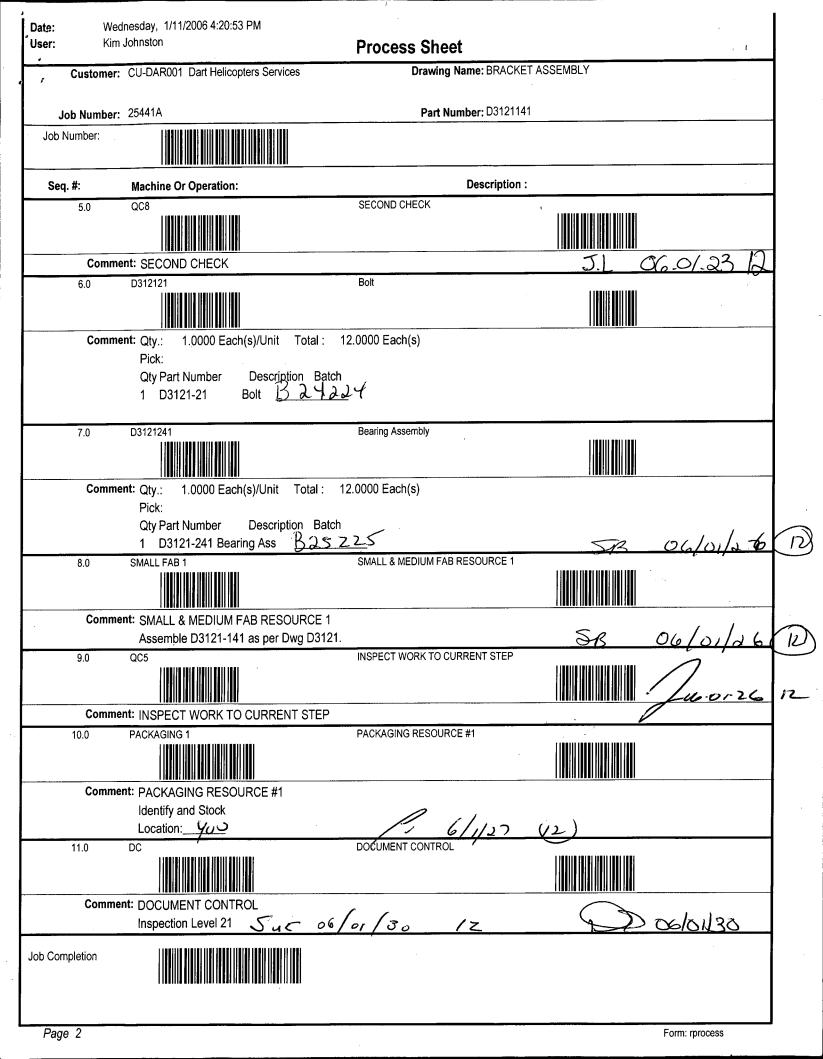
Dart Aerospace Ltd

W/O:		WORK ORDER CI	WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
				:				
				-				

Part No:	PAR #:	Fault Category:	 NCR: Yes	(No) [QA: 左	Date	: <u>06/01/3</u>
			QA:	N/C Clo	sed:	Date):

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B			Annewal				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector			
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				Replace				06.01.23			
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NOTE: Date & initial all entries



Dart Aerospace Ltd

W/O: WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		PAR #: Fault Category:	NCR: Yes	No DQ	A:	Date:	
			QA:	N/C Close	d:	Date: _	· · · · · · · · · · · · · · · · · · ·

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC		Corrective Action Section B				Annewal	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector	
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NOTE: Date & initial all entries

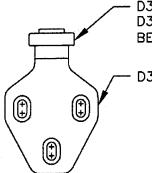




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	DESIG	" #	DRAWN BY	DAR1	F AEROSPACE WKESBURY, ONTARIO, CAN	LTD ADA
	CHEC	KED	APPROVED	DRAWING NO.		REV. C
		#	#	D3121		SHEET 1 OF 10
	DATE			TITLE		SCALE
	04.0	02.17		BRACKET AS	SEMBLY	1:2
	Α		02.04.15	NEW ISSUE		
		03.01.16	ADD RIDGES ADD -141/	; ADD MAT'L PRO -143/-144/-14	OP; FIX P/N 45/-146	

RELEASED

	DATE		I III LE.
	04.0	02.17	BRACKET ASSEMBLY 1
	Α	02.04.15	NEW ISSUE
	В	03.01.16	ADD RIDGES; ADD MAT'L PROP; FIX P/ ADD -141/-143/-144/-145/-146
	Ç	04.02.17	ADD CLEARANCE; USE -241 BEARING
	CI	C/F 04.03.26	397 WAS 4.00; 6.11 WAS 6.14
,	C2	JF 74 04.04.26	0,230 WAS 0,238

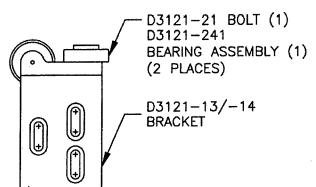


D3121-21 BOLT (1) D3121-241 BEARING ASSEMBLY (1)

D3121-041 BRACKET ASSEMBLY

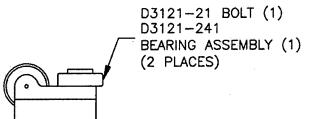
(REPLACES PREMIER P/N B30-23000-33)

D3121-11 BRACKET



D3121-043 (SHOWN) / D3121-044 (OPPOSITE) BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-37/-38)



D3121-15/-16 BRACKET

D3121-045 (SHOWN) BRACKET ASSEMBLY

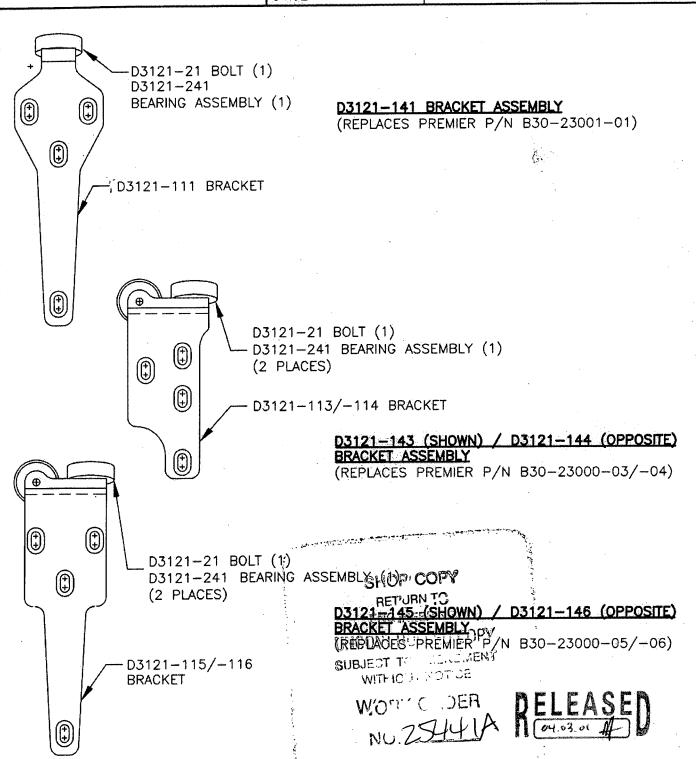
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TOMENT SUBLICOT TO ... WITHOUT STICE

> WORK ORDER NO. 25441 3A



DESIGN	DRAWN BY	DART AEROSP HAWKESBURY, ONTAR	ACE LTD
CHECKED	APPROVED	DRAWING NO. D3121	REV. C SHEET 2 OF 10
DATE		TITLE	SCALE
04.02.17		BRACKET ASSEMBLY	1:2

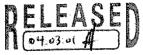


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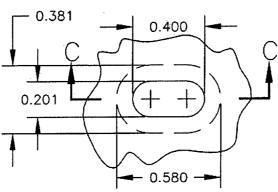


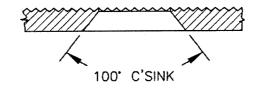


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DATE		TITLE	SCALE
04.02.17		BRACKET ASSEMBLY	1:1



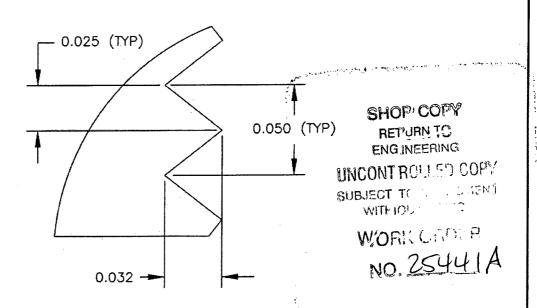
DETAIL A: SLOT DETAIL SCALE 2:1 VIEW ROTATED





SECTION

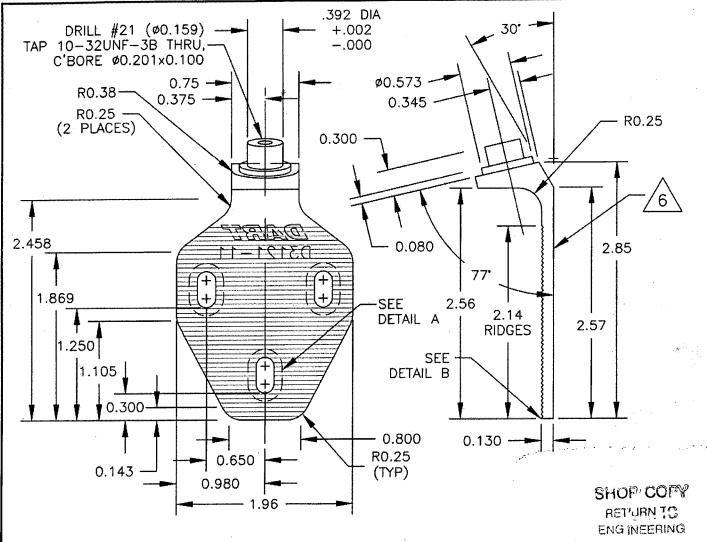
DETAIL B: RIDGE DETAIL PARTIAL SECTION **SCALE 1:20**







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i	DESIGN	CHECKED APPROVED DRAWII D31		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
	CHECKED ,	APPROVED	DRAWING NO.	REV. C		
	#	ar	D3121	SHEET 4 OF 10		
	DATE		TITLE	SCALE		
	04.02.17		BRACKET ASSEMBLY	1:1		



UNCONT POLLED COPY SUBJECT TO LENDMENT

D3121-11 BRACKET

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)
MIN ULTIMATE TENSILE = 150 ksi

MIN YIELD TENSILE = 100 ksi

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

4) BREAK ALL SHARP EDGES 0.005 TO 0.015

5) ENGRAVE DART P/N & LOGO AS SHOWN
6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

WORK ORDER NO. 25441

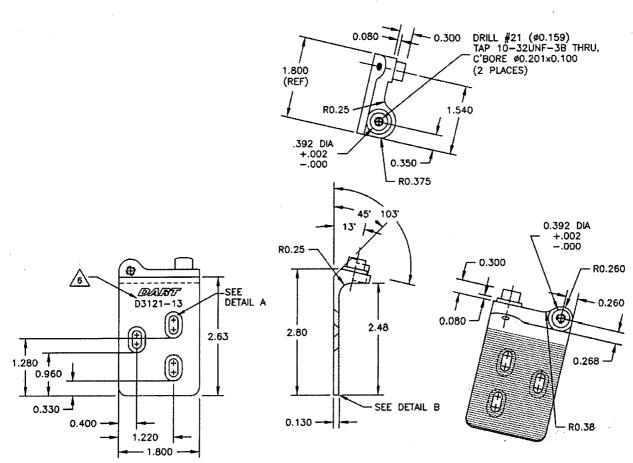


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7	CHECKED	APPROVED,	DRAWING NO.	REV. C
ı	#	1 #	D3121	SHEET 5 OF 10
ı	DATE		TITLE	SCALE
	04.02.18		BRACKET ASSEMBLY	1:2



SHOP COPY

RETURN TO ENG INEERING

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LINDME SUBJECT IN WITH JOUT NOTICE

D3121-14 BRACKET (OPPOSITE) 1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B) MIN ULTIMATE TENSILE STRENGTH = 150 ksi

MIN YIELD TENSILE STRENGTH = 100 ksi

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

D3121-13 BRACKET (SHOWN)

BREAK ALL SHARP EDGES 0.005 TO 0.015 ENGRAVE DART P/N & LOGO AS SHOWN

6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

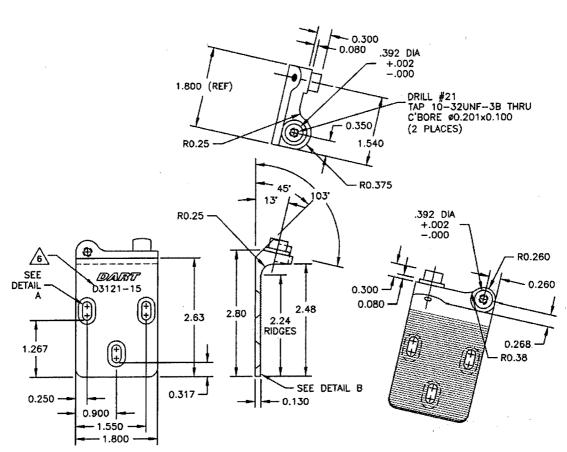
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DATE	<u> </u>	TITLE	SCALE	
04.02.18		BRACKET ASSEMBLY	1:2:	



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SUBJECT TO AMENDMENT WITH JOUT NOTICE

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B) MIN ULTIMATE TENSILE = 150 ksi

MIN YIELD TENSILE = 100 ksi

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

D3121-15 BRACKET (SHOWN)

D3121-16 BRACKET (OPPOSITE)

BREAK ALL SHARP EDGES 0.005 TO 0.015

5) ENGRAVE DART P/N AND LOGO AS SHOWN

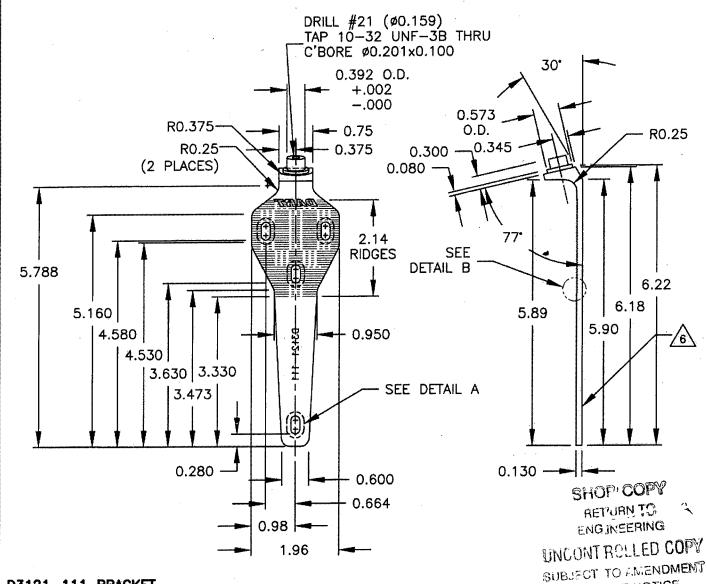
6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

WORK ORDER NO. 25441





DESIGN	DRAWN BY	DART AEROS HAWKESBURY, ON	
CHECKED	APPROVED	DRAWING NO.	REV. C
#		D3121	SHEET 7 OF 10
DATE		TITLE	SCALE
04.02.18		BRACKET ASSEMBLY	1:2



D3121-111 BRACKET

1) REPLACES PREMIER P/N B32-23001-11

2) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B) MIN ULTIMATE TENSILE = 150 ksi

MIN YIELD TENSILE = 100 ksi

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHEWISE NOTED

ALL DIMENSIONS ARE IN INCHES

BREAK ALL SHARP EDGES 0.005 TO 0.015

ENGRAVE DART P/N & LOGO IN AREAS SHOWN HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

WORK ORDER

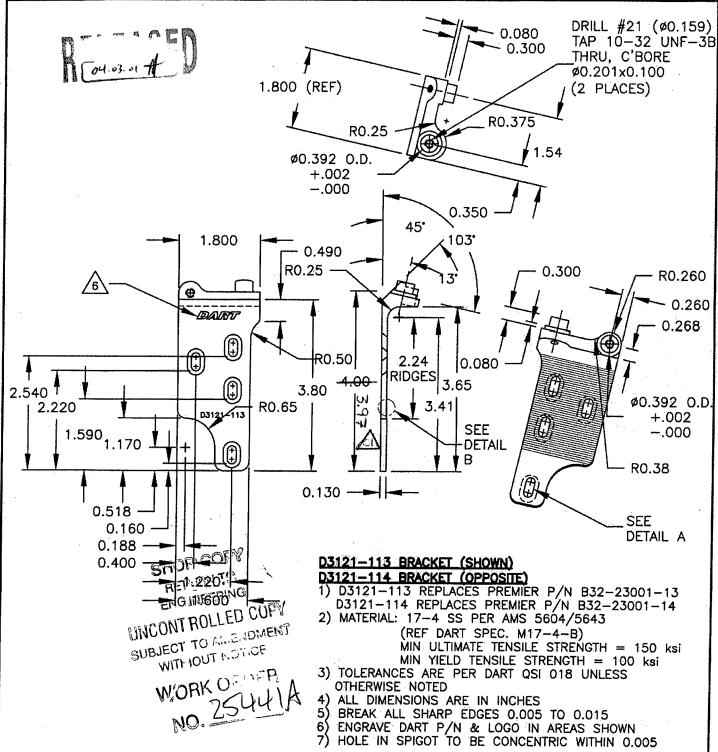
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	CHECKED	APPROVED.	DRAWING NO. D3121	REV. C SHEET 8 OF 10
	DATE		TITLE	SCALE
٠	04.02.18		BRACKET ASSEMBLY	1:2

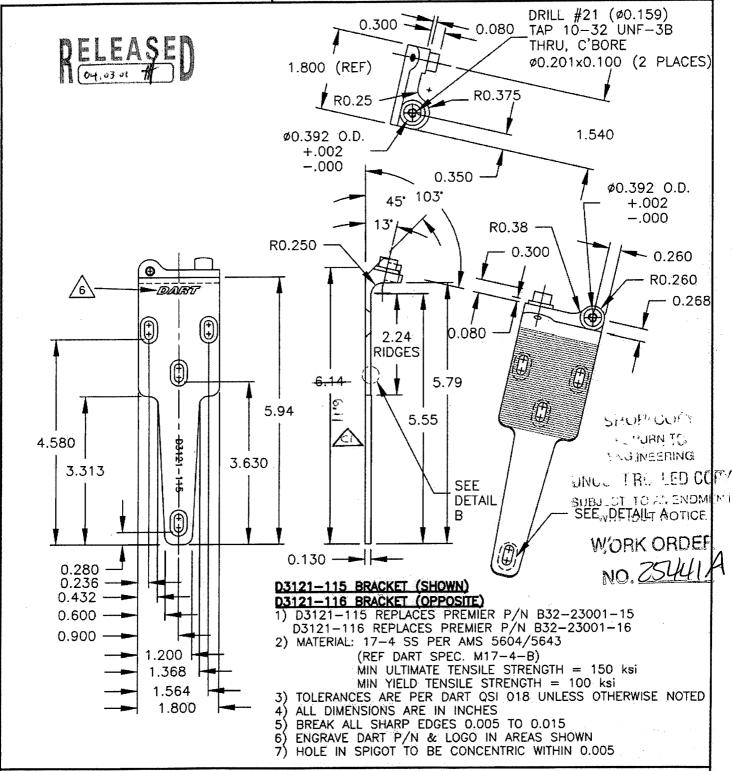


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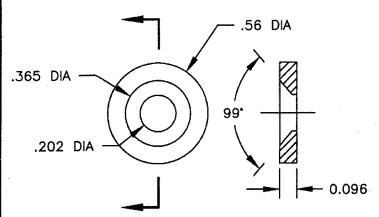
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DATE	1 11	TITLE	\$C/	ALE
04.02.18		BRACKET ASSEM	BLY	1:2







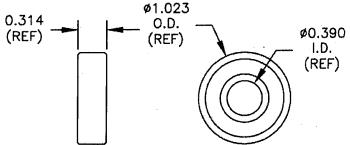
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CHECKED	APPROVED	DRAWING NO.	REV. C
#	1 #	D3121	SHEET 10 OF 10
DATE		TITLE	SCALE
04.02.17		BRACKET ASSEMBLY	1:1



D3121-17 WASHER (SCALE 2:1)

1) REPLACES PREMIER P/N B32-23001-17 2) MATERIAL: AISI 303 SS ROUND BAR, ANNEALED (REF DART SPEC. M303R)

- 3) TOLERANCÈS ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015



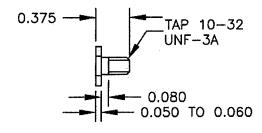
FAFNIR P/N 9100KDD

2) ALL DIMENSIONS ARE IN INCHÉS

D3121-19 BEARING (SCALE 1:1)

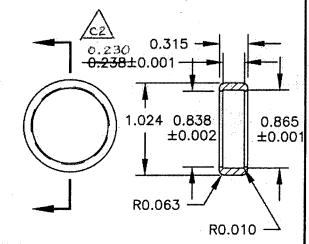
1) POSSIBLE SUPPLIER: KING BEARING P/N 6000-2ZJ/EM

1) MATERIAL: DELRIN ROD, Ø1.25



D3121-21 BOLT (SCALE 1:1)

- 1) MATERIAL: AISI 303 SS HEX, ANNEALED (REF DART SPEC. M303H0.500)
- NONE FINISH:
- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015



D3121-25 CAP (SCALE 1:1)

(REF DART SPEC. M-DELRIN-R1.250)
SHOP CU TOLERANCES ARE PER DART QSI 018 UNLESS
SHOP CU TOTHERWISE NOTED

RETURN 3) ALL DIMENSIONS ARE IN INCHES

ENGINEERING Ø0.866 - 0.236 UNCONTROLLER COPY O.D. D3121-25 CAP (REF) Ø0.390 04.03.01 I.D. D3121-23 (REF) BEARING D3121-23 BEARING (SCALE 1:1)

1) POSSIBLE SUPPLIER: SKF P/N 61900-2Z OR KML P/N 6900-ZZ

2) ALL DIMENSIONS ARE IN INCHES

D3121-241 BEARING ASSEBLY (SCALE 1:1)

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DART AEROSPACE LTD	Work Order: Z5441A
Description: 1324 LET ASSEMBLY	Part Number: D3721-11
Inspection Dwg: D32(4)(Rev: C	Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article X Prototype

Drawing [*] Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
6.037	to:010	6.631	-		Depth gans	2-
0.75	to .030	0.748				
\$ 6.201 40.10	*	0.2014.103				
0-397	+0.005	0.392				Must fit bearing
7.14	50.030	2.123	_			
0.950	±8.010	0.948	سن			
1.96	±0030	1.959				
O. 780	+0.010	0.279	_			
3,330	±000	3.329				
3.630	±0.00	3,630				
43800	towo ~	\\\\\		<u> </u>	21	
0.080	10.010	6.083				
c.30c	+0.01D	0.299				
\$ 6.573	1000	0.5-69				
2.0.25	20.030	0.75				
1.0.37	50.030	0.375				
6.18	to 030	6.191				
5.90	£0.030	5.915				
0.130	+0.010	0.123				
5.489	to 030	5.901				
0-381	+0.616	0.382				
0.201	±0.010	0.198	-			
6.580	+0.016	6.580				

Measured by: So Date: O6.01.22 Prototype Approval:

Date: O6(01/27) Date: O6.01.22 Date:

Rev	Date	Change	Revised by	Approved
Α		New Issue	KJ/JLM	